




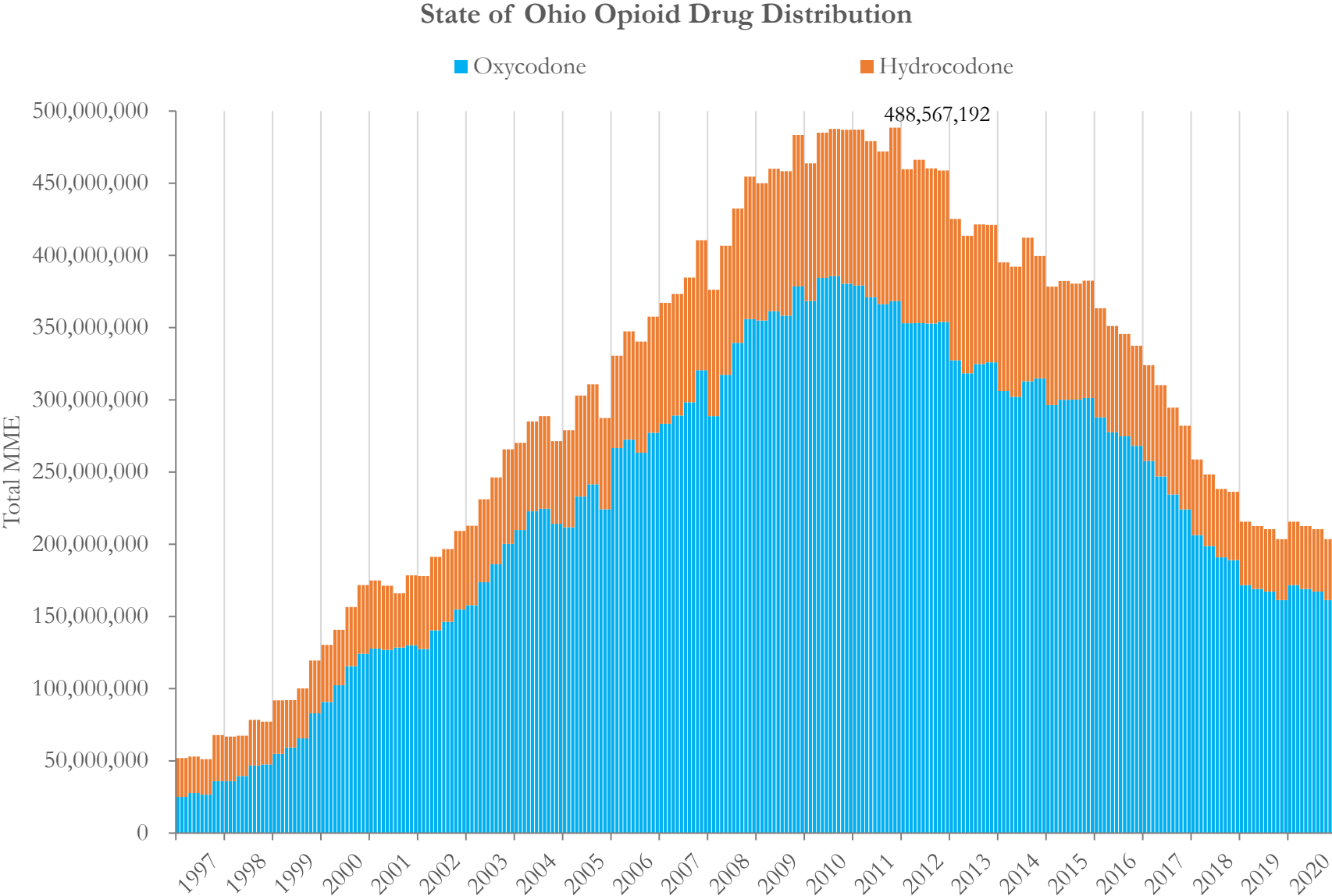
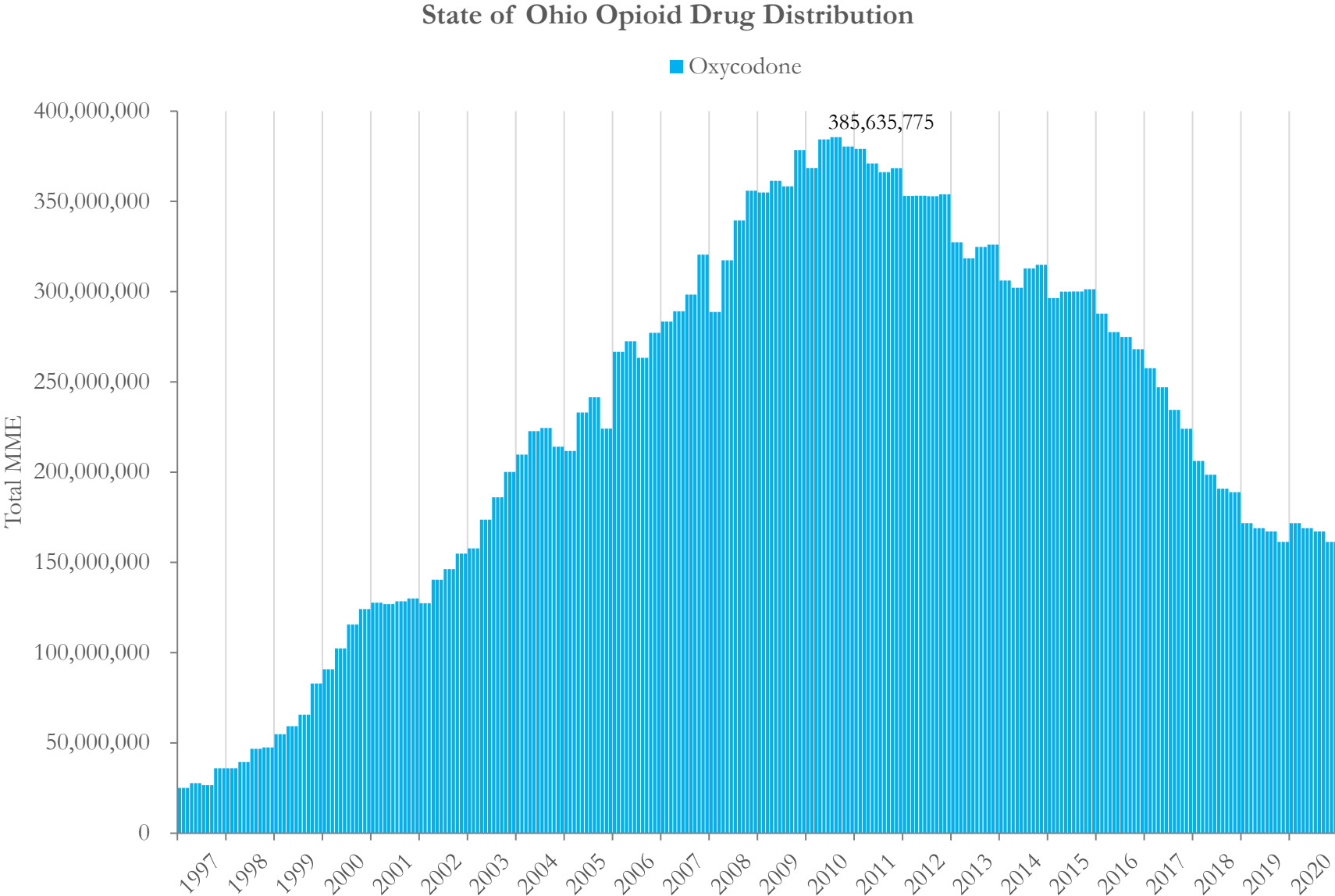


# EXHIBIT A

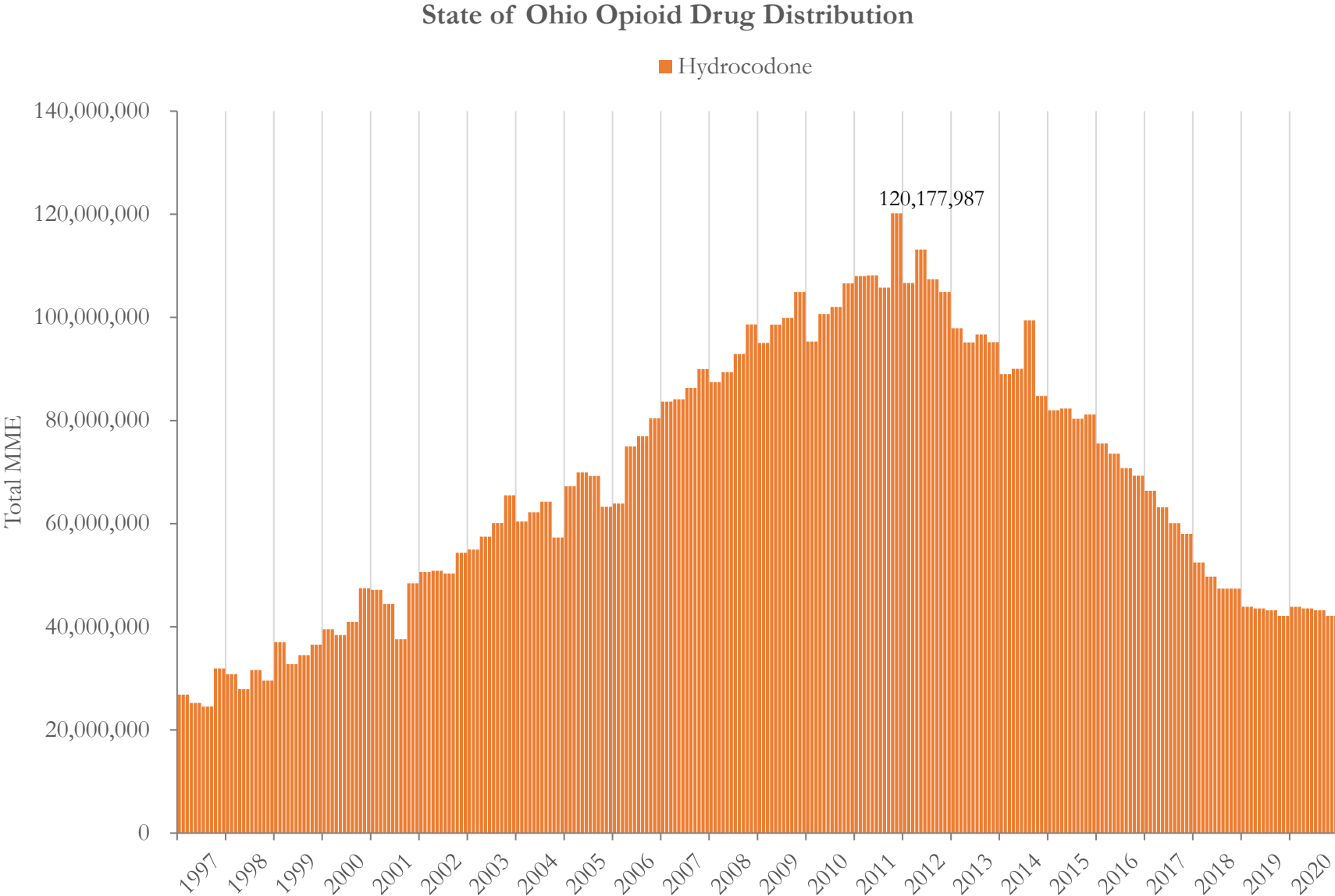
Drug Name	Drug Code	 U.S.			 State of Ohio			 Lake County, OH			 Lake County, OH			 Trumbull County, OH		
		Total Shipments in Dosage Unit		Average Annual Shipment per Cap	Total Shipments in Dosage Unit		Average Annual Shipment per Cap	Total Shipments in Dosage Unit		Average Annual Shipment per Cap	Total Shipments in Dosage Unit		Average Annual Shipment per Cap	Total Shipments in Dosage Unit		Average Annual Shipment per Cap
Hydrocodone	9193	71,513,949,560	52.7%	25.72	2,544,868,567	43.8%	24.51	109,796,212	47.3%	27.75	37,625,304	37.3%	18.21	72,170,908	55.0%	38.16
Oxycodone	9143	39,443,638,048	29.1%	14.19	2,312,717,726	39.8%	22.28	91,026,565	39.2%	23.00	47,029,135	46.6%	22.76	43,997,430	33.5%	23.27
Subtotal		110,957,587,609	81.8%	39.91	4,857,586,293	83.6%	46.79	200,822,777	86.5%	50.75	84,654,439	83.9%	40.98	116,168,338	88.6%	61.43
Morphine	9300	6,160,024,567	4.5%	2.22	215,669,019	3.7%	2.08	6,567,754	2.8%	1.66	3,559,184	3.5%	1.72	3,008,570	2.3%	1.59
Codeine	9050	5,542,104,687	4.1%	1.99	226,269,982	3.9%	2.18	7,560,943	3.3%	1.91	3,703,501	3.7%	1.79	3,857,442	2.9%	2.04
Hydromorphone	9150	2,508,931,874	1.8%	0.90	78,347,139	1.3%	0.75	1,915,472	0.8%	0.48	1,263,788	1.3%	0.61	651,684	0.5%	0.34
Fentanyl	9801	827,665,591	0.6%	0.30	39,138,267	0.7%	0.38	1,334,349	0.6%	0.34	660,762	0.7%	0.32	673,587	0.5%	0.36
Oxymorphone	9652	603,913,954	0.4%	0.22	34,610,220	0.6%	0.33	1,037,160	0.4%	0.26	532,460	0.5%	0.26	504,700	0.4%	0.27
Tapentadol	9780	341,800,982	0.3%	0.12	20,520,079	0.4%	0.20	898,560	0.4%	0.23	607,540	0.6%	0.29	291,020	0.2%	0.15
Meperidine	9230	277,898,650	0.2%	0.10	6,768,450	0.1%	0.07	270,875	0.1%	0.07	117,075	0.1%	0.06	153,800	0.1%	0.08
Dihydrocodeine	9120	35,923,889	0.0%	0.01	1,961,439	0.0%	0.02	125,454	0.1%	0.03	52,522	0.1%	0.03	72,932	0.1%	0.04
Levorphanol	9220L	12,966,499	0.0%	0.00	175,800	0.0%	0.00	1,300	0.0%	0.00	900	0.0%	0.00	400	0.0%	0.00
Opium, Powdered	9639	6,413,324	0.0%	0.00	441,612	0.0%	0.00	13,320	0.0%	0.00	8,688	0.0%	0.00	4,632	0.0%	0.00
Total Non-Treatment Drug		127,275,231,624	93.8%	45.78	5,481,488,299	94.4%	52.80	220,547,964	95.1%	55.74	95,160,859	94.4%	46.06	125,387,105	95.6%	66.31
Treatment Drug																
Buprenorphine	9064	1,798,413,522	1.3%	0.65	87,735,668	1.5%	0.85	2,777,912	1.2%	0.70	1,325,788	1.3%	0.64	1,452,124	1.1%	0.77
Methadone	9250B	6,591,133,464	4.9%	2.37	238,977,238	4.1%	2.30	8,706,100	3.8%	2.20	4,362,300	4.3%	2.11	4,343,800	3.3%	2.30
Grand Total		135,664,778,610	100.0%	48.79	5,808,201,206	100.0%	55.95	232,031,976	100.0%	58.64	100,848,947	100.0%	48.81	131,183,029	100.0%	69.37



Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).

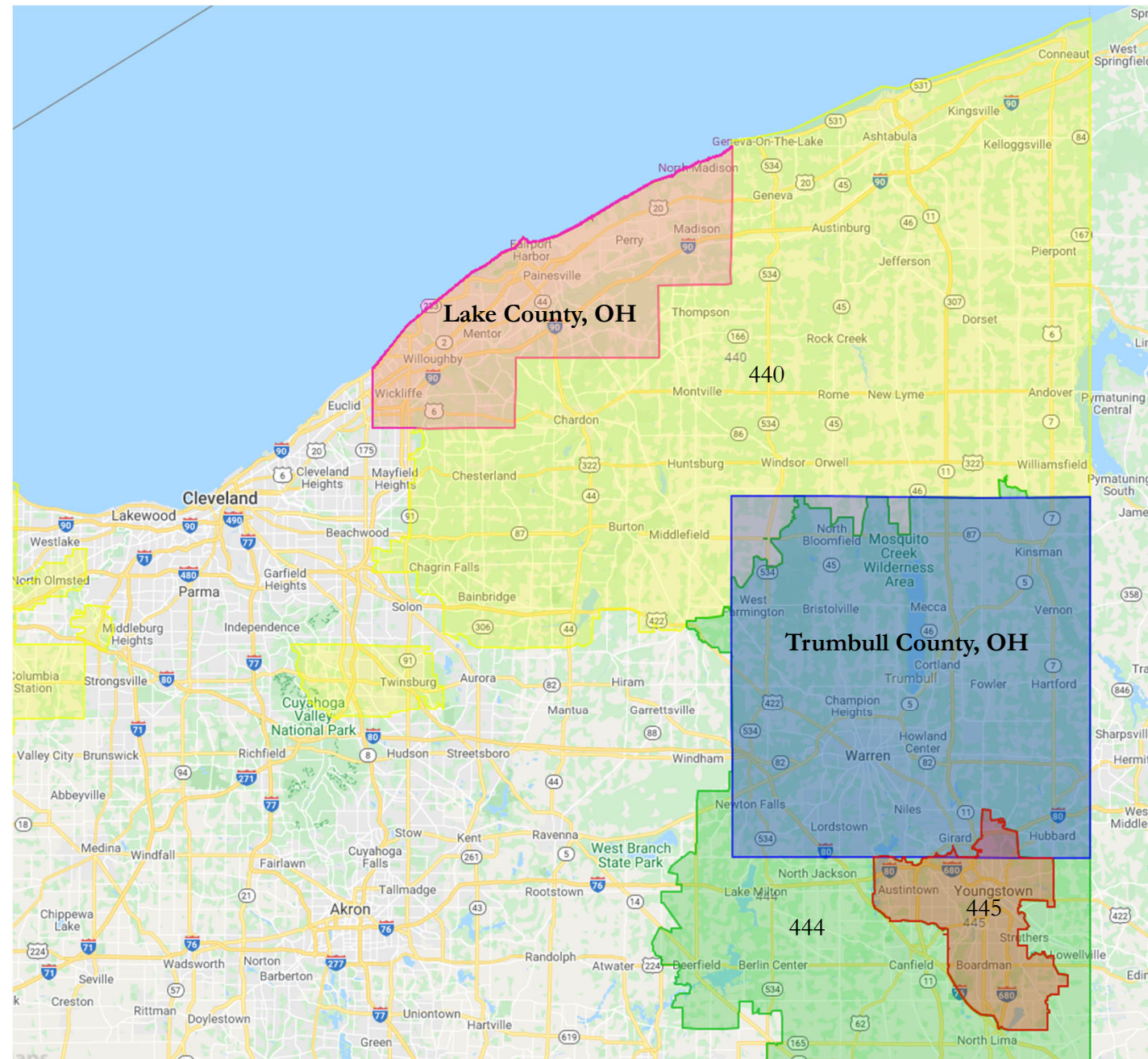


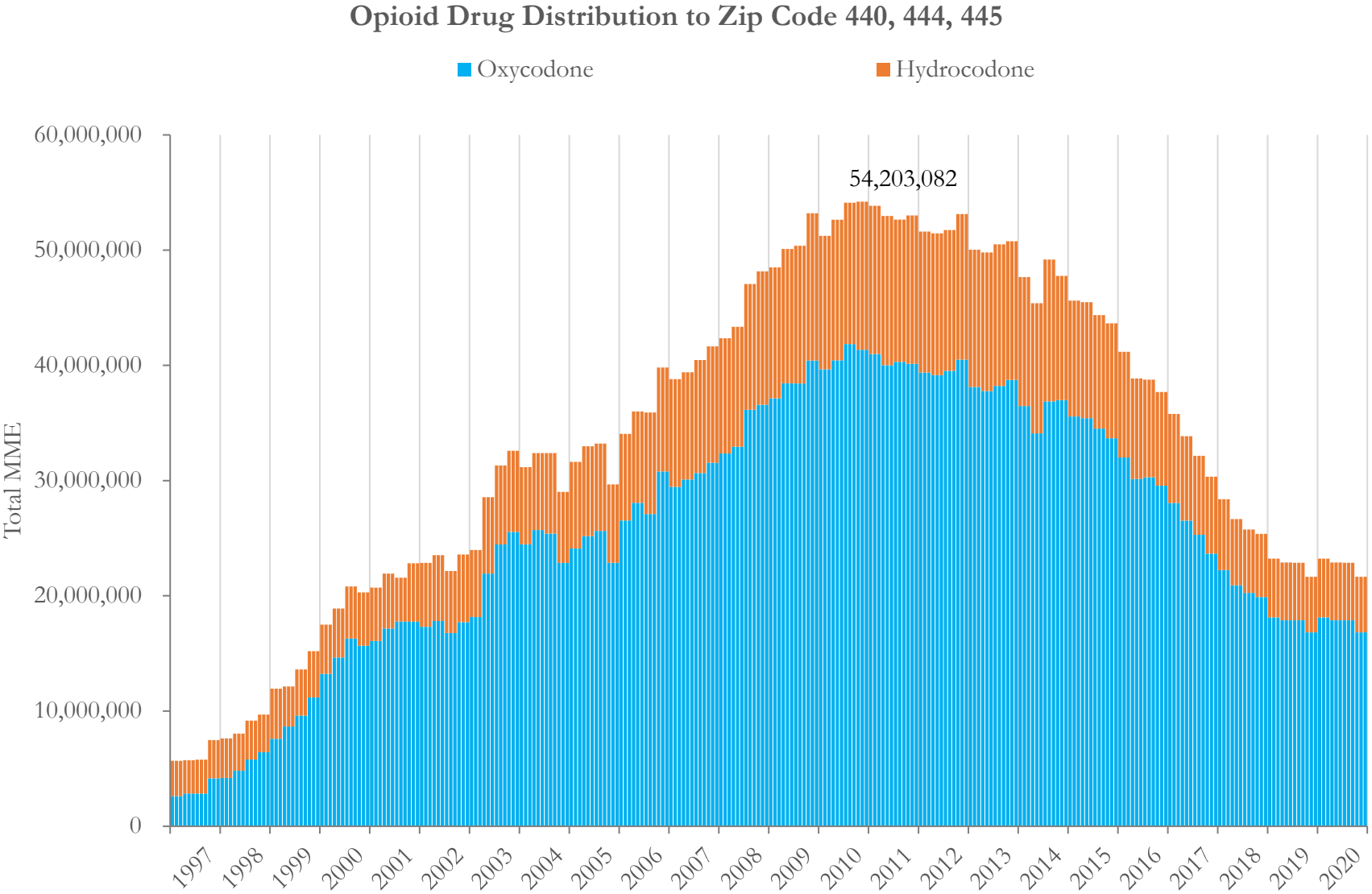
Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).



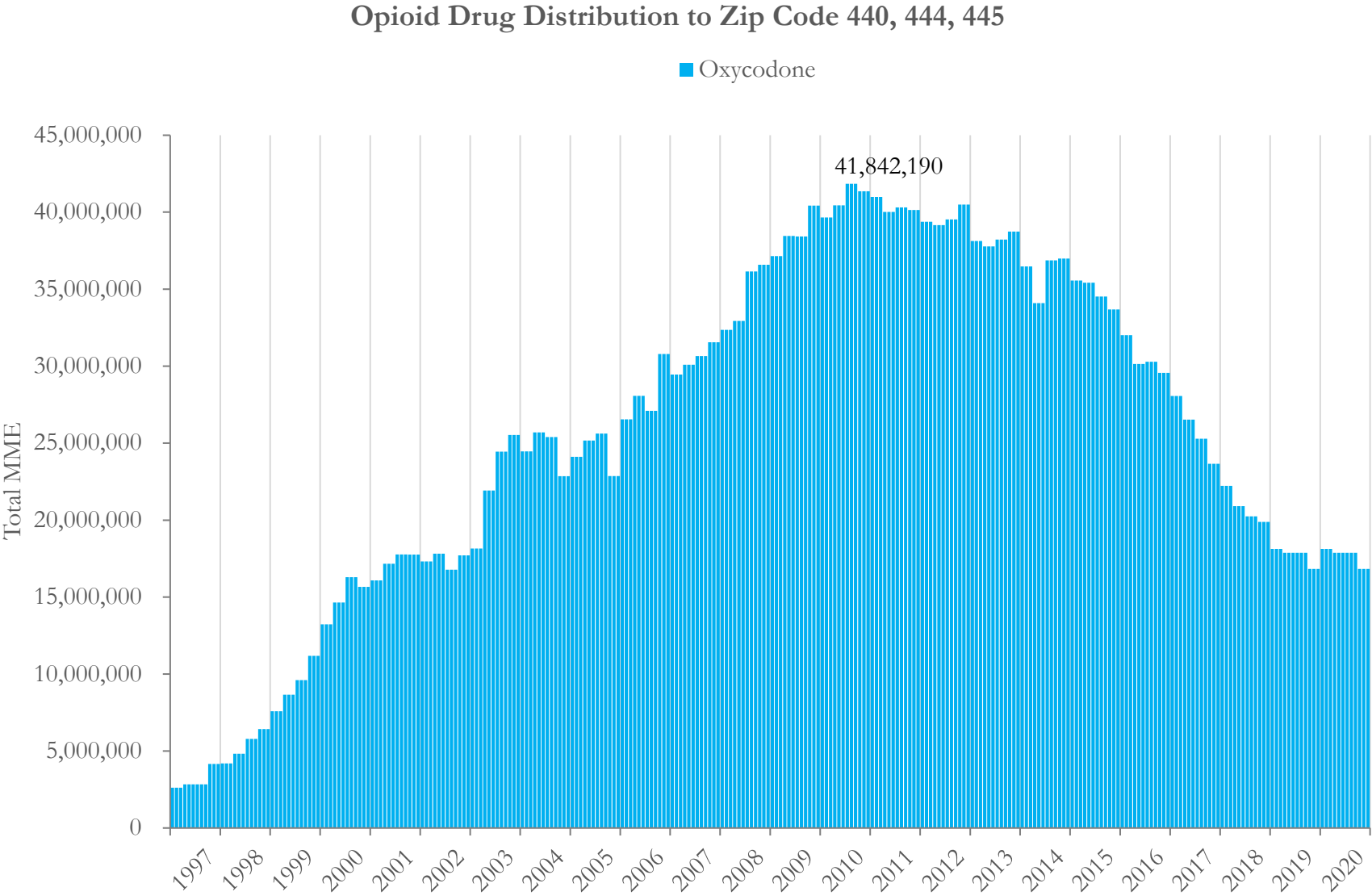
Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).

## Map of Lake County, OH and Trumbull County, OH



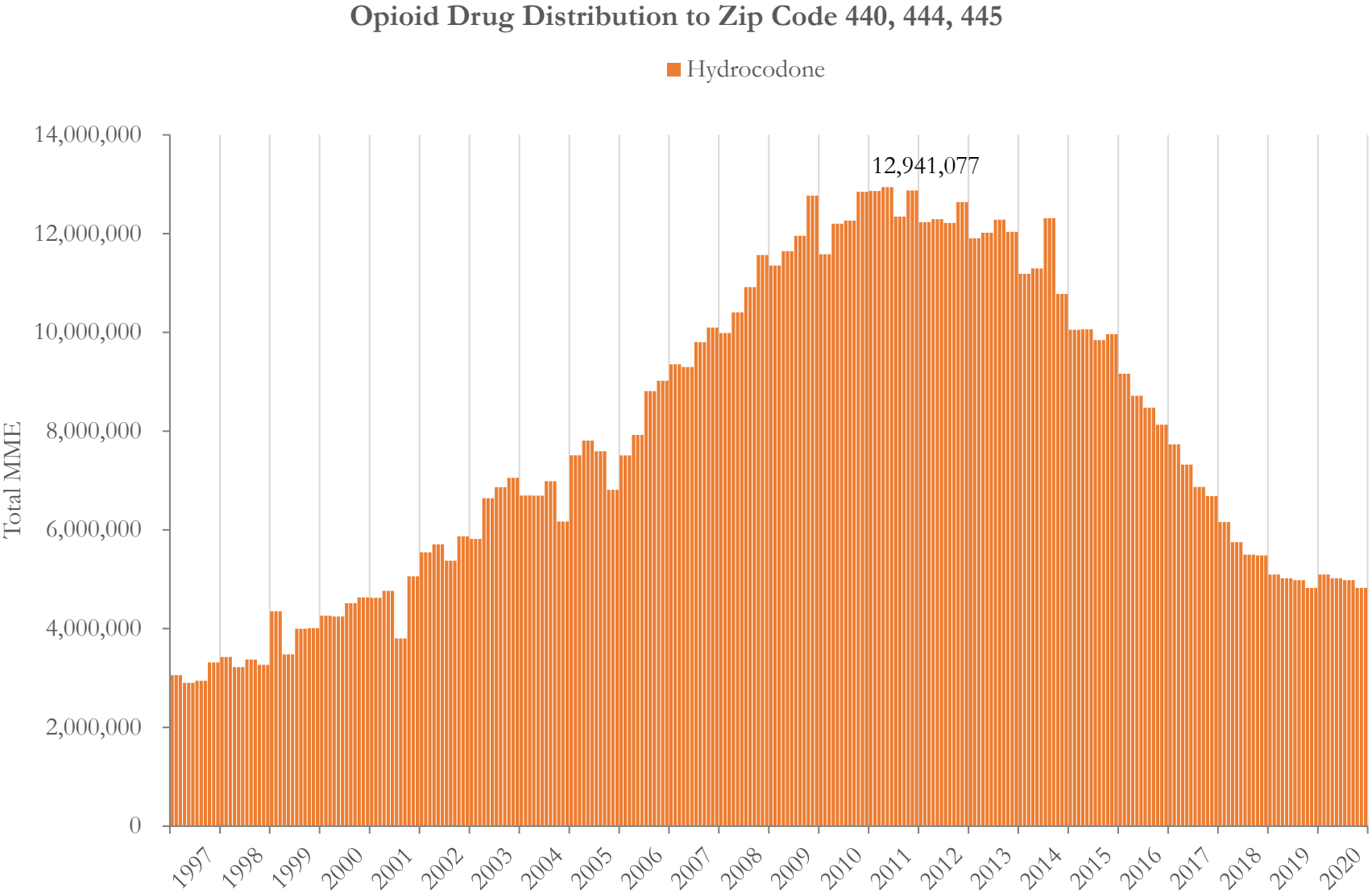


Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).








Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).










Source: ARCOS Retail Drug Summary Reports (“RDSR”) ([https://www.deadiversion.usdoj.gov/arcos/retail\\_drug\\_summary/index.html](https://www.deadiversion.usdoj.gov/arcos/retail_drug_summary/index.html)).

Region	 U.S.			 State of Ohio			 Lake/Trumbull			 Lake County, OH			 Trumbull County, OH		
Average Population	308,923,291			11,535,237			439,668			229,550			210,118		
	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap
Buyer Business Activity															
Chain Pharmacy	61,680,021,561	55.6%	22.18	3,117,870,985	64.2%	30.03	147,308,270	73.4%	37.23	68,452,500	80.9%	33.13	78,855,770	67.9%	41.70
Retail Pharmacy	38,869,875,000	35.0%	13.98	1,318,811,472	27.1%	12.70	50,761,550	25.3%	12.83	15,178,070	17.9%	7.35	35,583,480	30.6%	18.82
Retail and Chain Pharmacy Total	100,549,896,561	90.6%	36.16	4,436,682,457	91.3%	42.74	198,069,820	98.6%	50.06	83,630,570	98.8%	40.48	114,439,250	98.5%	60.52
Hospital/Clinic	3,514,608,103	3.2%	1.26	156,676,167	3.2%	1.51	2,585,075	1.3%	0.65	894,805	1.1%	0.43	1,690,270	1.5%	0.89
Hosp/Clinic-VA	2,044,865,650	1.8%	0.74	73,346,520	1.5%	0.71	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00
M/O Pharmacy	1,725,512,572	1.6%	0.62	169,531,300	3.5%	1.63	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00
Pharmacy - Fed	1,600,384,279	1.4%	0.58	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00
Other*	1,522,320,443	1.4%	0.55	21,349,849	0.4%	0.21	167,882	0.1%	0.04	129,064	0.2%	0.06	38,818	0.0%	0.02
Grand Total	110,957,587,609	100.0%	39.91	4,857,586,293	100.0%	46.79	200,822,777	100.0%	50.75	84,654,439	100.0%	40.98	116,168,338	100.0%	61.43

\*Other includes Practitioner, Hosp/Clinic- Mil, Central Fill Pharmacy, Hosp/Clinic Fed, Practitioner-DW/30, Practitioner-DW/100, Practitioner-DW/275, MLP-Physician Assistant, Pharmacy- Mil, MLP-Nurse Practitioner, MLP-Nurse Practitioner-DW/30, MLP-Physician Assistant-DW/30, MLP-Naturopathic Physician, Teaching Institution, MLP-Optometrist, Practitioner-Military, Canine Handler, Comp/Maint/Detox, MLP-Animal Shelter, MLP-Ambulance Service, Maint & Detox, Automated Dispensing System, Detoxification, Maintenance, MLP-Physician Assistant-DW/100, Chain Hosp/Clinic, MLP-Nurse Practitioner-DW/100, MLP-Dept Of State, MLP-Military, Compound/Detox, Compound/Maint

Data Source: ARCOS (2006 – 2014), U.S. Census Bureau

Pharmacy Market Share by Dosage Unit

Region															
Average Population	U.S. 308,923,291			State of Ohio 11,535,237			Lake/Trumbull 439,668			Lake County, OH 229,550			Trumbull County, OH 210,118		
	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap
Pharmacies															
Walgreen Co	17,056,533,483	17.0%	6.13	617,348,410	13.9%	5.95	31,511,510	15.8%	7.96	15,864,250	18.9%	7.68	15,647,260	13.6%	8.27
CVS	13,304,695,269	13.2%	4.79	734,209,710	16.5%	7.07	28,316,710	14.2%	7.16	17,177,220	20.4%	8.31	11,139,490	9.7%	5.89
Wal-Mart	7,424,757,210	7.4%	2.67	303,619,070	6.8%	2.92	11,736,730	5.9%	2.97	7,335,100	8.7%	3.55	4,401,630	3.8%	2.33
Rite Aid	5,369,464,135	5.3%	1.93	436,793,330	9.8%	4.21	35,235,710	17.7%	8.90	9,727,450	11.6%	4.71	25,508,260	22.2%	13.49
HBC (Giant Eagle)	416,620,010	0.4%	0.15	190,933,120	4.3%	1.84	30,197,470	15.2%	7.63	10,796,780	12.8%	5.23	19,400,690	16.9%	10.26
Other Chain Pharmacies	18,107,951,455	18.0%	6.51	834,967,345	18.8%	8.04	11,140,900	5.6%	2.82	8,057,860	9.6%	3.90	3,083,040	2.7%	1.63
Chain Pharmacies Total	61,680,021,561	61.3%	22.18	3,117,870,985	70.3%	30.03	148,139,030	74.5%	37.44	68,958,660	82.0%	33.38	79,180,370	69.0%	41.87
Retail Pharmacies Total	38,869,875,000	38.7%	13.98	1,318,811,472	29.7%	12.70	50,761,550	25.5%	12.83	15,178,070	18.0%	7.35	35,583,480	31.0%	18.82
Total	100,549,896,561	100.0%	36.16	4,436,682,457	100.0%	42.74	198,900,580	100.0%	50.27	84,136,730	100.0%	40.73	114,763,850	100.0%	60.69

HBC (Giant Eagle) only operates in 4 states, and only 22 counties in state of Ohio.  
Data Source: ARCOS (2006 - 2014), Defendant Transactional Data, U.S. Census Bureau

Oxycodone and Hydrocodone Dispensed  
in Dosage Unit

Region



Lake/Trumbull

439,668



Lake County, OH

229,550



Trumbull County, OH

210,118

Average Population

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Defendants

CVS	39,039,873	6.38	23,505,230	7.36	15,534,643	5.31
HBC (Giant Eagle)	42,256,160	6.86	15,842,300	4.93	26,413,860	8.98
Rite Aid	51,530,098	8.42	13,751,012	4.31	37,779,086	12.92
Walgreens	48,304,660	7.80	22,173,944	6.86	26,130,716	8.83
Wal-Mart	14,118,046	2.60	9,024,028	3.19	5,094,018	1.97
<b>Total</b>	<b>195,248,837</b>	<b>31.53</b>	<b>84,296,514</b>	<b>26.08</b>	<b>110,952,323</b>	<b>37.49</b>

Notes:

Data Source: Chain Pharmacy Defendants’ Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018

Oxycodone Dispensed  
in Dosage Unit

Region



Lake/Trumbull

Lake County, OH

Trumbull County, OH

Average Population

439,668

229,550

210,118

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Total  
Dosage Unit

Annual  
Dosage Unit  
per Cap

Defendants




CVS	17,840,444	2.92	13,007,492	4.07	4,832,952	1.65
HBC (Giant Eagle)	15,534,964	2.52	7,701,372	2.40	7,833,592	2.66
Rite Aid	23,843,001	3.90	8,818,397	2.76	15,024,604	5.14
Walgreens	24,055,757	3.88	13,055,332	4.04	11,000,425	3.72
Wal-Mart	6,847,257	1.26	5,210,503	1.84	1,636,754	0.63
<b>Total</b>	<b>88,121,423</b>	<b>14.23</b>	<b>47,793,096</b>	<b>14.78</b>	<b>40,328,327</b>	<b>13.63</b>

Notes:

Data Source: Chain Pharmacy Defendants’ Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018

Hydrocodone Dispensed  
in Dosage Unit

Region	 Lake/Trumbull		 Lake County, OH		 Trumbull County, OH	
Average Population	439,668		229,550		210,118	
	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap
Defendants						
CVS	21,199,429	3.47	10,497,738	3.29	10,701,691	3.66
HBC (Giant Eagle)	26,721,196	4.34	8,140,928	2.53	18,580,268	6.32
Rite Aid	27,687,097	4.53	4,932,615	1.54	22,754,482	7.78
Walgreens	24,248,903	3.92	9,118,612	2.82	15,130,291	5.11
Wal-Mart	7,270,789	1.34	3,813,525	1.35	3,457,264	1.33
Total	107,127,414	17.30	36,503,418	11.29	70,623,996	23.87

Notes:

Data Source: Chain Pharmacy Defendants’ Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018